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AMENDMENTS TO THE ABSTRACT:

Please replace the paragraph (Abstract) beginning at page 24, line 1 with the following rewritten version:

ABSTRACT

A scroll fluid machine includes a stationary scroll (21) having a spiral wrap (24) formed on an end plate (23) and a moving scroll (22) having a spiral wrap (24) formed on an end plate (23). A polymer actuator (40) for adjusting the amount of space between the wrap (24) and the end plate (23) is disposed in a recess formed at ~~the a~~ tip of the wrap (24). The polymer actuator (40) changes its shape along ~~the a~~ height of the wrap (24) to adjust ~~the an~~ amount of the space. The polymer actuator (40) also functions as a seal between the end plate (23) and the wrap (24). The recess is formed such that a wall of the recess including an inner circumference surface of the wrap (24) has a thickness different from that of a wall of the recess including an outer circumference surface of the wrap (24).